

ABSTRACT

A method for screening agents modulating I $\kappa$ B $\alpha$  protein ubiquitination by a functional ubiquitin ligase protein complex containing  $\beta$ -TrCP protein, the method including the following steps:

- (a) bringing into contact a candidate agent to be tested with recombinant yeast cells that express in their nucleus:
  - (i) a fusion protein including the I $\kappa$ B $\alpha$  polypeptide and at least one first detectable protein; and
  - (ii) a protein containing the  $\beta$ -TrCP polypeptide;
- (b) quantifying the first detectable protein in the yeast cells, at the end of at least one predetermined period of time after bringing the candidate agent into contact with the cells;
- (c) comparing the result obtained in step (b) with a control result obtained when step (a) is carried out in the absence of the candidate.